

Chassis Component

Patent Claims

1. A chassis part of a vehicle, with a magnet (2) and at least one electric coil (10), which interacts with the magnetic field generated by the magnet (2), wherein the magnet (2) and the coil (10) are mobile in relation to one another, **characterized in that**

the chassis part (13) can perform vibrations at at least one natural frequency,

the magnet (2) is fastened to a spring (8) and is mobile relative to the coil (10), and

the natural frequency of the oscillator (14) having the magnet (2) and the coil (8) is tuned to the natural frequency of the chassis part (13).

2. A chassis part in accordance with claim 1, characterized in that the magnet (2) is guided linearly movably in a sleeve (4) made of a nonmagnetic material.

3. A chassis part in accordance with claim 1 or 2, characterized in that the magnet (2) is fastened in a sliding element (1) made of a nonmagnetic material.

15 4. A chassis part in accordance with one of the above claims, characterized in that the spring (8) is a coil spring.

5. A chassis part in accordance with one of the above claims, characterized in that the magnet (2) is arranged in the spring (8).

6. A chassis part in accordance with one of the above claims, characterized in that a second electric coil (10) is provided and the magnet (2) is arranged between the two electric coils (10).

7. A chassis part in accordance with claim 6, characterized in that the two electric coils (10) have a core (11) each made of a magnetic material, wherein the two cores (11) are connected to one another via a housing (12) made of a magnetic material.

5
8. A chassis part in accordance with claim 7, characterized in that the magnet (2), the spring (8) and the two coils (10) are arranged in the housing (12).